



Re: Cura 530

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial Number: 10/038,854

Group: 1631

Filed: December 31st 2001

Examiner: Cheyne D Ly

Inventor: Spytek et al.

For: Proteins and Nucleic Acids Encoding Same

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUBMISSION OF DOCUMENT

The Examiner's Office Action of December 4th 2003, to which a response has been recently submitted, indicates that "Document C279, filed April 11th 2002, has not been considered due to {sic} said document is not published".

Assignee submits herewith a true copy of the missing document, i.e., the International Search Report for PCT/US01/49976.

Respectfully submitted,

Mahwak

Intellectual Property **CuraGen Corporation** 555 Long Wharf Drive New Haven, CT 06511 Registration\No.\26,824

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:

MINTZ, LEVIN, COHN, FERRIS GLOVSKY and POPEO, P.C. Attn. Elrifi, Ivor R. One Financial Center Boston, MA 02111

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

UNITED STATES OF AMERICA	
	Date of mailing (day/month/year) 16/06/2003
Applicant's or agent's file reference 21402-230	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 01/49976	International filing date (day/month/year) 31/12/2001
Applicant CURAGEN CORPORATION	

1.	X	The appl	licant is hereby r	notified that the Inter	national Search F	Report has been establ	ished and is	transmitted herew	ith.
		Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): i)one By							
		When?	The time limit for International Se	or filing such amend earch Report; howev	ments is normally ver, for more deta	2 months from the dates, see the notes on the	e accompa	Bocker Entry	
		Where?	Directly to the	International Bure 34, chemin des Co 1211 Geneva 20, Fascimile No.: (41	olombettes Switzerland			Docket Cross Off Previously Entered No Docketing Hev ELITE	211662
		For more	e detailed instri	uctions, see the not	tes on the accomp	panying sheet.	·	☐ Annuities	
2.				notified that no Interi ect is transmitted he		leport will be establishe	ed and that t	the declaration und	der
3.		•	·		. ,	l fee(s) under Rule 40.	•		
						ransmitted to the Interr t and the decision ther			ne
		no c	decision has bee	en made yet on the p	protest; the applic	ant will be notified as s	oon as a de	cision is made.	
4.	Furth	er action	n(s): The appli	icant is reminded of	the following:				
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.									
						oreliminary examinations from the priority date			
	befo	ore all des	signated Offices		n elected in the d	the prescribed acts for lemand or in a later ele / Chapter II.			e

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, _ Fax: (+31-70) 340-3016

Authorized officer

Heike Zoglauer



NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged: claims 11 to 13, 18 and 19 cancelled: claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 21402-230	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.							
International application No.	ternational application No. International filing date (day/month/year) (Earliest) Priority Date (day/month/year)							
PCT/US 01/49976	31/12/2001	29/12/2000						
Applicant	<u></u>							
CURAGEN CORPORATION								
This International Search Report has bee according to Article 18. A copy is being tr	en prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant						
This International Search Report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.								
Basis of the report								
 With regard to the language, the language in which it was filed, un 	international search was carried out on the baseless otherwise indicated under this item.	sis of the international application in the						
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	he international application furnished to this						
 b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form. 								
	ernational application in computer readable forr o this Authority in written form.	m. ·						
777	o this Authority in written form.							
The statement that the sub	osequently furnished written sequence listing d	loes not go beyond the disclosure in the						
CTT.								
2. X Certain claims were fou	nd unsearchable (See Box I).							
3. Unity of invention is lack	•							
4. With regard to the title,								
X the text is approved as su	bmitted by the applicant.							
the text has been established	hed by this Authority to read as follows:							
	•							
	·							
5. With regard to the abstract,	5. With regard to the abstract,							
the text has been establish	TYC.							
6. The figure of the drawings to be published.	shed with the abstract is Figure No.							
as suggested by the applic		X None of the figures.						
because the applicant faile								
because this figure better	characterizes the invention.							

INTERNATIONAL SEARCH REPORT

ational application No. PCT/US 01/49976

In.

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)					
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. χ Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
Although claims 23-28 and 40-41 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.					
2. X Claims Nos.: - because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:					
see FURTHER INFORMATION sheet PCT/ISA/210					
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
. Decause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows:					
see additional sheet					
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.					
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:					
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:					
1-41 partially					
Remark on Protest The additional search fees were accompanied by the applicant's protest.					
No protest accompanied the payment of additional search fees.					

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-41 partially

A polypeptide corresponding to SEQ ID NO:2 and subject-matter relating thereto.

2. Claims: 1-41 partially

Inventions 2-30: Polypeptides corresponding to SEQ ID NO: 4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60 and subject-matter relating thereto.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claim 22 relates to a method employing a compound defined solely by reference to a desirable characteristic or property, namely the ability to bind a polypeptide of the invention.

The claim covers all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the method/compound by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to methods employing antibodies.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

A. CLASSI IPC 7	FICATION OF SUBJECT I C12N15/12 A61K38/17	C07K14/47	C07K16/18 C12N15/11	G01N33/53	C12Q1/68		
B. FIELDS	searched commentation searched (cl. C12N C07K						
Documenta	tion searched other than m	inimum documentation t	o the extent that such o	ocuments are included in	the fields searched		
	lata base consulted during						
0.0001114	FAITE CONCIDENCE TO	DE DELEVANT					
	ENTS CONSIDERED TO E		proprieto, of the relevant		Relevant to claim No.		
Category °	Citation of document, wit	in indication, where app	orophate, of the relevant	passages	Helevalit to Claim No.		
A	of cDNA end lipase/chol JOURNAL OF SOCIETY OF MD, US, vol. 266, n 25 November	` 1991 (1991- I, XP00219275 -9258	lysosomal ac er hydrolase HEMISTRY, AM HEMISTS, BAL 11-25), page	id " ERICAN TIMORE,	1-41		
Furl	ther documents are listed in	the continuation of bo	x C.	Patent family membe	ers are listed in annex.		
 Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filling date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed 			ot r ·Y or	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family 			
i	February 2003			Date of mailing of the international search report			
Name and	NL - 2280 HV Rijswi	ce, P.B. 5818 Patentlaa ijk 040, Tx. 31 651 epo nl,	n 2	Authorized officer Sprinks, M	, V-10		